

EXPO[®]13 OCTOBER 21-24/ATLANTA, GA

MIMIN

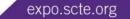
JUMPING ON THE RIGHT HEVC TRAIN – PRAGMATIC MIGRATION STRATEGIES TO THE NEW COMPRESSION STANDARD

Yaron Raz

Director, Video Solutions Marketing

Harmonic

Tweet about today's session on Twitter y #scteExpo



30

MPEG Compression Standard Evolution



Efficiency Goal – 50% better than AVC/H.264 High Profile



Benefits of HEVC to Cable Operators

QAM Spectrum

DOCSIS capacity

Storage for VOD, Time-Shift TV, nDVR

CDN

IP backbone

Improved quality





HEVC Applications for Cable Operators

Second-screen ABR delivery

IP STB video delivery

QAM STB video delivery

Ultra-HD video

Video outside the home





Multiscreen ABR Video

- Many devices can support SW-decoding while maintaining reasonable battery life
- Concurrency for 2nd screen is still <5% but picking up
- Connected TVs will make the difference
- IP STBs to use ABR as well





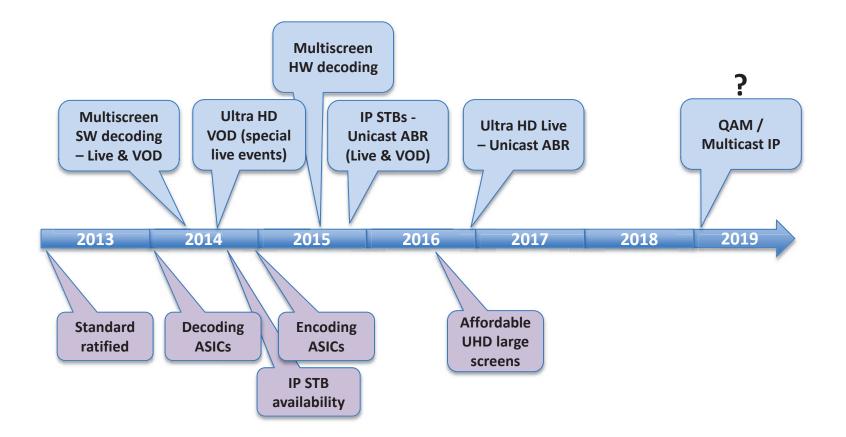
Ultra HD

- Will likely leverage HEVC from day 1
- ~14Mb per service vs. ~28Mb with AVC
- VOD can leverage existing cinematic content
- Live will take more time
- No legacy installed base



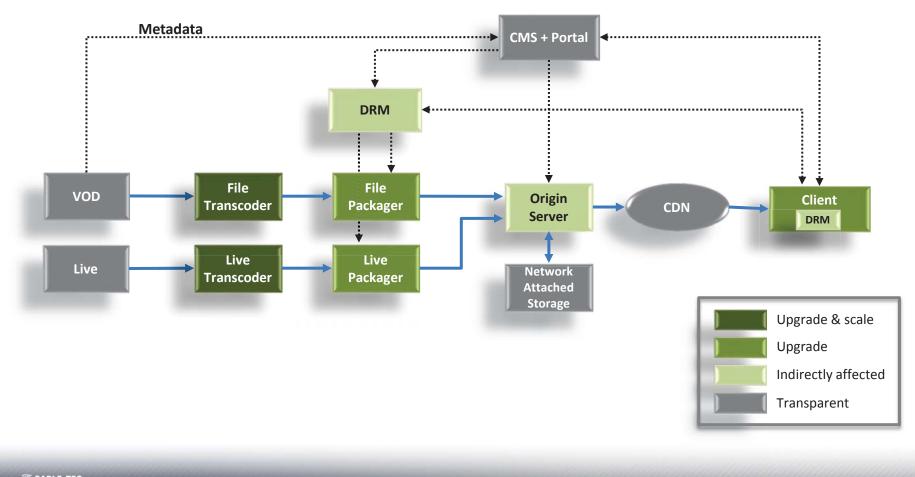


HEVC - Projected Migration Timeline





ABR Migration to HEVC



28

DCTOBER 21-24/ ATLANTA, GA

Society of Cable Telecommunication

Preparing for HEVC migration

Software based transcoding

- Leveraging COTF IT infrastructure
- Upgradeable to support HEVC...
- ...But HEVC will take 10x the compute resources
- Simple software upgrade for packagers
- May need to add DASH protocol





Summary

- 50% efficiency gains is real and beneficial
- Migration will be much faster than AVC
 - Predominantly utilizing IP ABR
 - No Simulcast vs. swap-out challenge
 - Software decoder availability on installed base
- Deployments will start as early as 2014
 - Multiscreen
 - Ultra HD VOD
- Future-proof your infrastructure investment today









Yaron Raz

Yaron.raz@harmonicinc.com

Tweet about today's session on Twitter 😏 #scteExpo



30